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SEQUENCE LISTING

1

- (1) GENERAL INFORMATION:
 - (i) APPLICANT:
 - (A) NAME: Aventis Research & Technologies GmbH & Co KG
 - (B) STREET:
 - (C) CITY: 65926 Frankfurt
 - (D) FEDERAL STATE:
 - (E) COUNTRY: Germany
 - (F) POSTAL CODE: 65926
- (ii) TITLE OF INVENTION: Human deadenylating nuclease, its preparation and use
 - (iii) NUMBER OF SEQUENCES: 29
 - (iv) COMPUTER READABLE FORM:
 - -(A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: WINDOWS 3.1
- (2) INFORMATION FOR SEQ ID NO: 1
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10
 - (B) TYPE: Amino acid sequence
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Peptide
 - (v) FRAGMENT TYPE: Internal fragment
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1

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WO 99/	/5864	2	PCT/EP99/03071
(2) 1	NFO	RMATION FOR SEQ ID NO: 2	
((i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	
((ii)	MOLECULE TYPE: Peptide	
(1	(v)	FRAGMENT TYPE: Internal fragment	
(2	xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	2
KPFNR	SSPI	DV K	11
(2)	NFOI	RMATION FOR SEQ ID NO: 3	
. (i	i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	·
(i	ii)	MOLECULE TYPE: Peptide	
(\	v)	FRAGMENT TYPE: Internal fragment	
(>	xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	3
KPFNR	SSPI	DK K	. 11
(2) 11	NFOF	RMATION FOR SEQ ID NO: 4	
(i))	SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	

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	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	4
KYA	ESYW	IQT YADYVG	16
(2)	INFO	DRMATION FOR SEQ ID NO: 5	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 8 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	
	(ii)	MOLECULE TYPE: Peptide	
	(v)	_ERAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 5	5
KEQI	EELND	DA .	. 8
(2)	INFO	RMATION FOR SEQ ID NO: 6	•
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 9 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 6	;

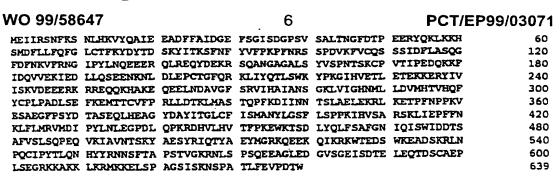
(ii)

WO 99/58647 KLFLMRVMD			4	PCT/EP99	9/03071 9	
(2)	INFC	DRMA	ATION FOR SEC	Q ID NO: 7		
	(i)	(A) (B) (C)	QUENCE CHAR LENGTH: 34 TYPE: Nucleotic STRANDEDNE TOPOLOGY: Li	de sequence SS: Single		
	(ii)	MC	DLECULE TYPE:	Miscellaneous nu	cleic acid: Primei	- DNA
	(xi)	SE	QUENCE DESC	RIPTION: SEQ ID	NO: 7	
CCA	TATCC	AT	ATGCTTTTCA	GTGCCTTTCC	TAAC 3	34
(2)	INFO	RMA	TION FOR SEQ	ID NO: 8		
	(i)	(A)- (B) (C)	QUENCE CHAR LENGTH: 25 TYPE: Nucleotid STRANDEDNES TOPOLOGY: Lir	le sequence SS: Single	<u>.</u>	
	(ii)	МО	LECULE TYPE:	Miscellaneous nuc	eleic acid: Primer	DNA
	(xi)	SEC	QUENCE DESCR	RIPTION: SEQ ID	NO: 8	
AGTA	ACTCG	AG	TTACAATGTG	TCAGG	2	5
(2)	INFO	RMA	TION FOR SEQ	ID NO: 9		
	(i) ·	(A) I (B) (C) S	QUENCE CHARA LENGTH: 29 TYPE: Nucleotida STRANDEDNES TOPOLOGY: Lin	e sequence S: Single		

MOLECULE TYPE: Miscellaneous nucleic acid: Primer DNA

	(xi)	SEC	QUENCE DESC	RI	PTION: SEQ ID NO: 9	
AGTO	STCGC	AT	ATGGAGATAA	4	TCAGGAGCA	29
(2)	INFO	RMA	TION FOR SEC) [NO: 10	
	(i)	(A) I (B) 7 (C) \$	QUENCE CHAR LENGTH: 25 FYPE: Nucleotic STRANDEDNE TOPOLOGY: Li	de SS	sequence S: Single	
	(ii)	MOL	ECULE TYPE:	M	iscellaneous nucleic acid: Prim	er DNA
	(xi)	SEC	UENCE DESC	RI	PTION: SEQ ID NO: 10	
AGTA	CTCA	ЭC	GGTTTGCTG(0	CCTCA	25
(2)	INFO	RMAT	TION FOR SEQ) IE) NO: 11	
	(i)	(A) L (B) T (C) S	QUENCE CHAR LENGTH: 639 FYPE: Amino ac STRANDEDNE: FOPOLOGY: Li	cid SS	sequence :: Single	
	(ii)	MOL	ECULE TYPE:	P	rotein	
	(v)	FRA	GMENT TYPE:	N	Terminus	
	/vi\	SEC	NIENCE DESC	ים	DTION: SEO ID NO: 11	



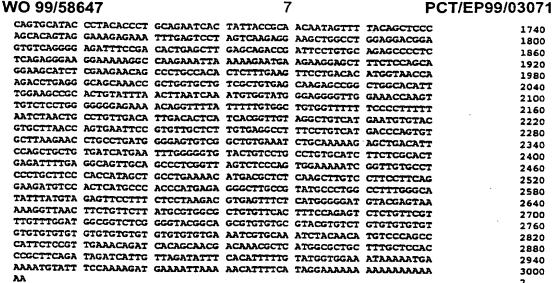


- (2) INFORMATION FOR SEQ ID NO: 12
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 2941
 - (B) TYPE: Nucleotide sequence
 - (C) STRANDEDNESS: Double
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: cDNA for mRNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12

	*					
				TCCGGCCACT		60
				TGTACCAGGC		120
				GTGATGGACC		180
GCATTAACAA	ATGGTTTTGA	CACTCCAGAA	GAGAGGTATC	AGAAGCTTAA	AAAGCATTCC	240
ATGGACTITT	TGCTATTTCA	GTTTGGCCTT	TGCACTITTA	AGTATGACTA	CACAGATTCA	300
AAGTATATAA	CGAAGTCATT	TAACTTCTAT	GTTTTCCCGA	AACCCTTCAA	TAGATCCTCA	360
CCAGATGTCA	AATTTGTTTG	TCAGAGCTCC	AGCATTGACT	TTCTAGCAAG	CCAGGGATTT	420
GATTTTAATA	AAGTTTTTCG	AAATGGAATT	CCATATTTAA	ATCAGGAAGA	AGAAAGACAG	480
TTAAGAGAGC	AGTATGATGA	AAAACGTTCA	CAGGCGAATG	GTGCAGGAGC	TCTGTCCTAT	540
GTATCTCCTA	ACACTTCAAA	ATGTCCTGTC	ACGATTCCTG	AGGATCAAAA	GAAGTTTATT	. 600
GACCAAGTGG	TAGAGAAAAT	AGAGGATTTA	TTACAAAGTG	AAGAAAACAA	GAACTTGGAT	660
TTAGAGCCAT	CTACCGGGTT	CCAAAGAAAA	CTAATTTATC	AGACTTTGAG	CTGGAAGTAT	720
CCGAAAGGCA	TTCATGTTGA	GACTTTAGAA	ACTGAAAAGA	AGGAGCGATA	TATAGTTATC	780
AGCAAAGTAG	ATGAAGAAGA	ACGCAAAAGA	AGAGAGCAGC	AGAAACATGC	CAAAGAACAG	840
GAGGAGCTGA	ATGATGCTGT	GGGATTTTCT	AGAGTCATTC	ACCCATTCC	TAATTCGGGA	900
AAACTTGTTA	TTGGACACAA	TATGCTCTTG	GACGTCATGC	ACACAGTTCA	TCAGTTCTAC	960
				CARCATGTGT		1020
				AGGATATCAT		
				TCAACCCTCC		
				AACTCCACGA		1200
				ATTACCTAGG		1260
				TTGAACCTTT		1320
				TGGAAGGACC		1380
				AATGGAAAAC		1440
				GGATTGATGA		
				TCAATACCAG		1560
				GAAAACAGGA		1620
				ACAGCAAACG		1680
A T CAAAAA AA	AUTUMUTUM.	. WRWINGCIRG	WIGGLOGGIG			2000







- (2) INFORMATION FOR SEQ ID NO: 13
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12
 - (B) TYPE: Amino acid sequence
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Peptide
 - (v) FRAGMENT TYPE: Internal fragment
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13

ADFFAIGFSG IS 12

- (2) INFORMATION FOR SEQ ID NO: 14
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15
 - (B) TYPE: Amino acid sequence
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Peptide
 - (v) FRAGMENT TYPE: Internal fragment

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 13					
LVIG	GHNMLLV MHTVH 15						
(2)	INFORMATION FOR SEQ ID NO: 14						
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear					
	(ii)	MOLECULE TYPE: Peptide					
	(v)	FRAGMENT TYPE: Internal fragment					
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 14					
SEQL	HEAG	YA YITGLC	16				
(2)	INFO	RMATION FOR SEQ ID NO: 15					
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear					
	(ii)	MOLECULE TYPE: Peptide					
	(v)	FRAGMENT TYPE: Internal fragment					
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 15					
CDFV	'AIFFL	G LD	12				
(2)	INFO	RMATION FOR SEQ ID NO: 16	•				

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	(i)	SEQUENCE CHARACTERI (A) LENGTH: 15 (B) TYPE: Amino acid seque	
		(C) STRANDEDNESS: Sing (D) TOPOLOGY: Linear	le
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal	fragment
	(xi)	SEQUENCE DESCRIPTION	I: SEQ ID NO: 16
LVV	GHNSI	LA MYMYH	15
(2)	INFO	RMATION FOR SEQ ID NO: 1	17
	(i)	SEQUENCE CHARACTERIS (A) LENGTH: 16 (B) TYPE: Amino acid seque (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	ence
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal f	fragment
	(xi)	SEQUENCE DESCRIPTION:	: SEQ ID NO: 17
ENV	/HNAC	FS YVTGEV	16
(2)	INFO	RMATION FOR SEQ ID NO: 1	8
	(i)	SEQUENCE CHARACTERIS (A) LENGTH: 12 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	nce
	(ii)	MOLECULE TYPE: Pentide	





NO: 18

(v)	FRAGMENT TYPE: Internal fragment
(xi)	SEQUENCE DESCRIPTION: SEQ ID

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12

- (2) INFORMATION FOR SEQ ID NO: 19
 - SEQUENCE CHARACTERISTICS: (i)
 - (A) LENGTH: 15
 - (B) TYPE: Amino acid sequence
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Peptide
 - FRAGMENT TYPE: Internal fragment (v)
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19

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15

- (2) INFORMATION FOR SEQ ID NO: 20
 - (i) **SEQUENCE CHARACTERISTICS:**
 - (A) LENGTH: 16
 - (B) TYPE: Amino acid sequence
 - (C) STRANDEDNESS: Single
 - (D) TOPOLOGY: Linear
 - (ii) MOLECULE TYPE: Peptide
 - (v) FRAGMENT TYPE: Internal fragment
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20

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(2)		047 11 DRMATION FOR SEQ ID NO: 21	PCT/EP99/03071
(2)	1141	DRIMATION FOR SEQ ID NO: 21	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 (B) TYPE: Amino acid sequence	·
		(C) STRANDEDNESS: Single(D) TOPOLOGY: Linear	
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 2	20
GTL\	/AIAF\	'S LQ	12
(2)	INFO	RMATION FOR SEQ ID NO: 22	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	ζ.
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 22	2
VFVG	HGLN	NF KHINI	15
(2)	INFO	RMATION FOR SEQ ID NO: 23	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	
		(D) TOPOLOGY: Linear	

	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 23	•
QEG	NHDS	IEA HTALIL	16
(2)	INFC	DRMATION FOR SEQ ID NO: 24	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 24	
FPAL	ALTFV	R TR	12
(2)	INFO	RMATION FOR SEQ ID NO: 25	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear	
	(ii)	MOLECULE TYPE: Peptide	
	(v)	FRAGMENT TYPE: Internal fragment	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 25	

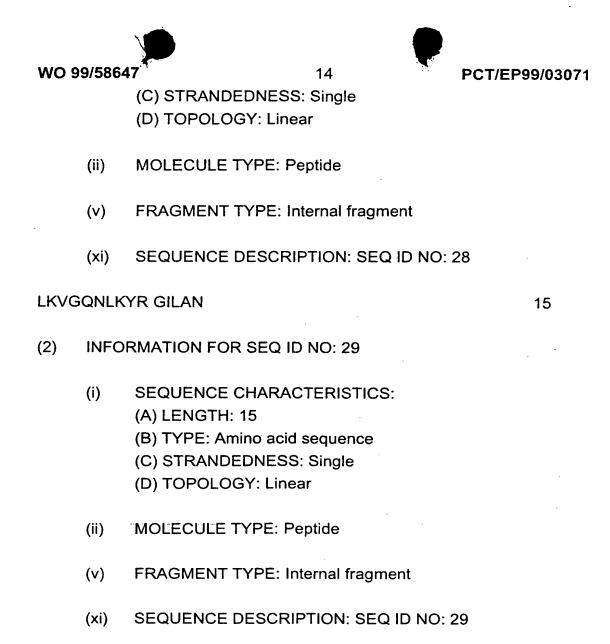
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TKF	TKFLHAGSEL EVFLN				
(2)	INFC				
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear			
	(ii)	MOLECULE TYPE: Peptide			
	(v)	FRAGMENT TYPE: Internal fragment			
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 26			
ERQ	EWAA	AVW YLLPI	15		
(2)	INFC	PRMATION FOR SEQ ID NO: 27			
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 (B) TYPE: Amino acid sequence (C) STRANDEDNESS: Single (D) TOPOLOGY: Linear			
	(ii)	MOLECULE TYPE: Peptide			
	(v)	FRAGMENT TYPE: Internal fragment			
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO: 27			
APVI	12				
(2)	INFC	PRMATION FOR SEQ ID NO: 28			
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 (B) TYPE: Amino acid sequence			

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